

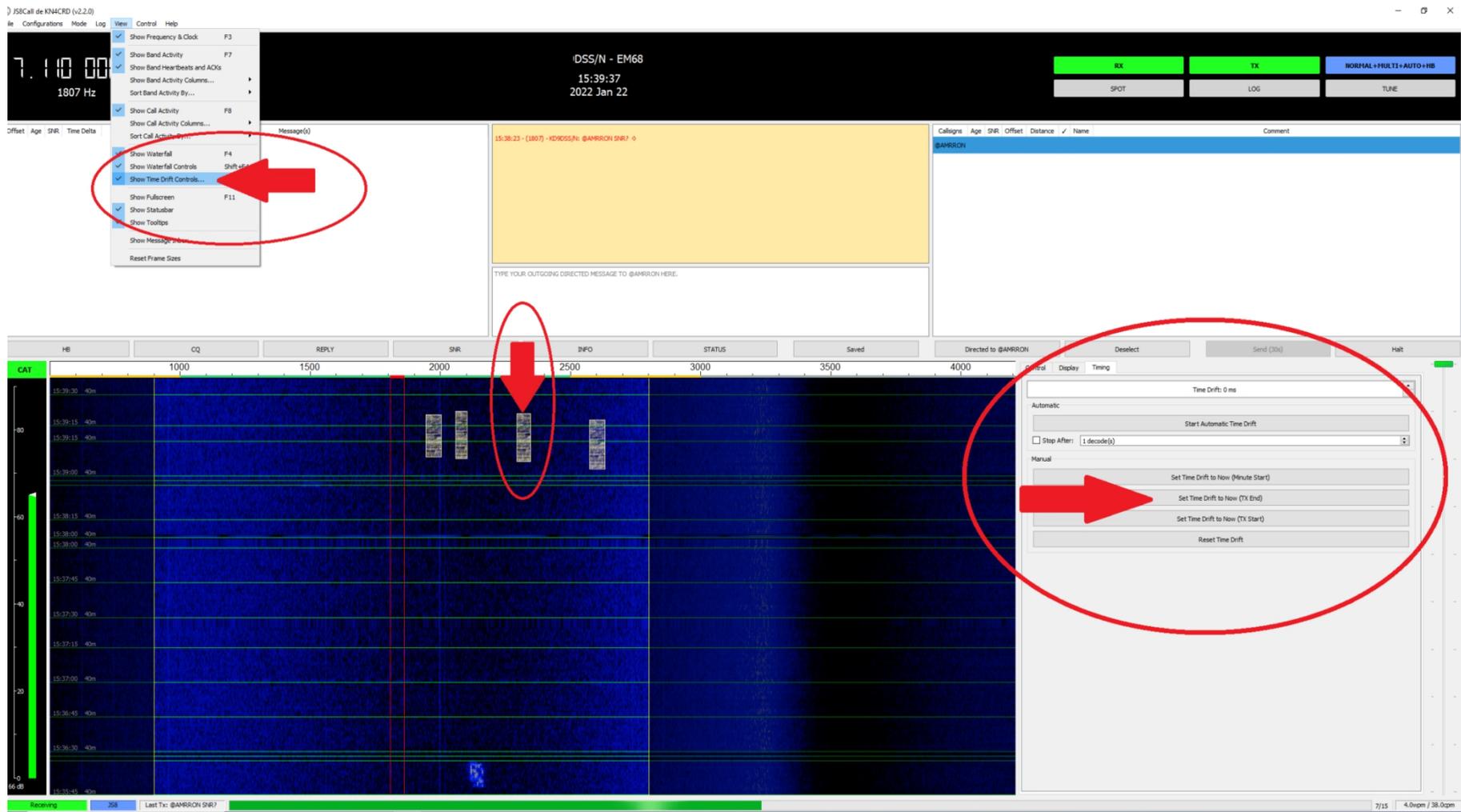
JS8 TimeSync White Paper v1.0

In order to decode (and display) other JS8 signals JS8 requires your JS8 time to be somewhat closely synchronized with other JS8 stations. Typically this is done automatically by JS8 reading your computer time which for most operating systems is set in the background over the internet or if you have it set up, using a GPS receiver. In the event that neither of these is available, it is important to know how to sync your JS8 to other AmRRON stations. JS8 provide several tools to make this possible. To keep things simple this document we will discuss one way with the hopes that once mastered, you can explore other ways of fine running your JS8 to best reflect “AmRRON” time.

This document assumes your station is so far out of sync with other stations, you do not decode any stations in the “Band Activity” and “Call Activity” panes.

Instructions

1. At the top left of your JS8 program select the menu option titled “View”
 - a) Select “Show Time Drift Controls”. This will display a menu down on the right side of your waterfall.
 - b) Hover your mouse over the “Set Time Drift to Now (TX End)”
 - c) When you see or hear a JS8 signal prepare to click your mouse at the end of the signal. This will adjust your JS8 time drift to closely match the time of the signal you selected. Your JS8 should now be able to decode stations that your time reasonably matches.
2. Who do I sync to?
 - a) Once you are able to decode signals, you should see them listed in your “Band Activity” pane on the left side of JS8
 - b) Set your JS8 “Band Activity” to display their “Time Delta”. This will allow you to see how close you are to each of them, and also give you an idea of which stations are most closely aligned. (You may see several you are off by 100 ms and maybe one or two that are off by 1000 ms.
 - c) Are you familiar with any of these stations? Do you see an experienced user? An NCS? Someone who through your experience and practice you deem to be knowledge in AmRRON Skills? Choose one you believe to be most reliable and most likely to be a good time setter. Refine your time delta from one of these stations.
3. Here is a YouTube video that presents the method outlined above. https://www.youtube.com/watch?v=Uik6S_J8ZoE



4. Advanced step not fully covered in this instruction sheet
 - a) When you have multiple stations in your "Band Activity" and you wish to synchronize your Time Delta to that station.

- i. Select that station with your mouse
- ii. Right Click and show the options
- iii. Choose "Jump to ?? ms time drift" This will cause your JS8 to match that of the selected station.

JS8Call de KN4CRD (v2.2.0)
File Configurations Mode Log View Control Help

7.110 000
1535 Hz

Offset	Age	SNR	Time Delta	Message(s)
900 Hz	9m	-23 dB	0 ms	
2115 Hz	15m	-04 dB	200 ms	RF/PN: AI7HH SNR -13
1002 Hz	15m	-06 dB	-100 ms	RH/PN: AI7HH SNR -15
2202 Hz	15m	+01 dB	100 ms	BSQ: AI7HH SNR -22
2052 Hz	15m	-06 dB	200 ms	CES: AI7HH SNR -16
2184 Hz	15m	+04 dB	0 ms	MH: AI7HH SNR -08
2021 Hz	15m	-04 dB	-400 ms	MW: AI7HH SNR -07
1702 Hz	15m	+06 dB	100 ms	SP: AI7HH SNR +00
2151 Hz	37m	-17 dB	100 ms	HH: @AMRRON SNR?
1905 Hz	39m	-02 dB	100 ms	JRD: @AMRRON SNR?
2296 Hz	40m	-01 dB	100 ms	NZL: @AMRRON SNR?